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HP5900 switch console port login:
Telnet 10.20.126.208
Login: admin
Password: password

1 Device Overview

The HP5900AF-48XG-40SFP+ switch is a Layer 2/Layer 3 Ethernet only switch.
It has 48 10G ports and 4 40G ports.

2 Setting up the HP5900 switch for Telnet access

Note *that the Ethernet management port on the back cannot set a gateway unless it is in "Emergency Shell mode" which it will only do if the firmware doesn't load. To get to the switch via telnet, I had to set a default static route, which could cause issues when running other traffic. It will probably flood through the hub.*

***Because of this you may want to remove static route once you are configured with commands:*

system-view
undo ip route-static 0.0.0.0 0.0.0.0 10.20.126.208
save

By default, Telnet login is disabled.

To Log in through Telnet, complete the following configuration tasks:

- Enable the Telnet server function.

system-view
telnet server enable

- Configure an authentication mode for VTY login users. By default, password authentication is used but no password is configured.

system-view
user-interface vty 0 *(repeat for vty 1 and vty 2– will give you 3 potential telnet sessions)*
authentication-mode none

- Assign a user role to VTY login users (network-operator by default).

user-role network-admin

- Set up IP address for Ethernet management interface, and add default route

system-view
interface *M_GigabitEthernet0/0/0* ip address 10.20.126.208 255.255.255.0
ip route-static 0.0.0.0 0.0.0.0 10.20.126.208
save

3 Navigation

3.1 CLI Navigation

- To do almost any configuration, you have to be in the “system-view”

system-view

- To show anything, use “display”

display vlan 10
display interface brief

- To delete something use “undo” rather than the Cisco “no”

undo <command>

- To back up a level in the menu tree:

quit

- To see current configuration:
  display current-configuration

- To save configuration changes:
  save

4 HP5900 configuration - basic Ethernet configuration

4.1 Creating and removing VLANs and adding/removing ports to a VLAN

- To create separate vlans
  system-view
  vlan 10
- To remove a vlan and all that is in it:
  system-view
  undo vlan 10

- To add ports to the VLAN:
  system-view
  vlan 10
  port Ten-GigabitEthernet1/0/1 *(or for a range:)*
  port Ten-GigabitEthernet1/0/1 to TenGigabitEthernet1/0/9

- To remove ports in the VLAN:
  system-view
  vlan 10
  undo port Ten-GigabitEthernet1/0/1

4.2 Setting Ethernet port type for Ethernet

- For regular Ethernet traffic, set port type to "access" mode
  system-view
  interface Ten-GigabitEthernet1/0/1
  port link-type access

- If you need to set the speed on the port:
  system-view
  interface Ten-GigabitEthernet1/0/1
  speed 10000 (or 1000, or auto)

4.3 Setting Ethernet port type to carry FCoE tagged packets

- For carrying FCoE traffic, set port type to "trunk" mode (to permit tagged and untagged frames coming from initiator).

- This switch uses the Cisco term "trunking" to mean the ability to carry traffic for more than one tagged vlan on the same physical port.

**note the following may be wrong – it is my best guess without actually setting up fabric, and how we had to set up the Cisco 5020's to carry FCoE traffic

```
system-view
interface Ten-GigabitEthernet1/0/1
port link-type trunk
port trunk permit vlan 10
```

4.4 PFC settings

**if these are needed for anything

- You can set the PFC at the interface level:

```
system-view
interface Ten-GigabitEthernet1/0/1
priority-flow-control ?
        auto     Automatically negotiate to enable PFC function
        enable   Enable PFC function
        no-drop  Enable lossless transmission for packets with the specified 802.1p priorities
```

4.5 Link Aggregation Groups (LAG, link bundling, trunking, etc)

**if these are needed for anything

- Looks like you need to set the type of link aggregation to use:

```
system-view
link-aggregation ?
        global       Specify global traffic load-sharing mode
        lacp         Configure LACP protocol
        load-sharing  Link aggregation load sharing
```

- You can set the port priority at the interface level:

```
system-view
interface Ten-GigabitEthernet1/0/1
link-aggregation port-priority ?
```

INTEGER<0-65535> Port priority value